



Week 7: Software PM Tools and techniques

Rachelle Bosua & Eileen O'Callaghan

www.lms.unimelb.edu.au



- Already in Week 7:
- Mid-semester break 14 – 22 April
- Reflect on last week & PM in general
- PM challenges
- Tools and Techniques
- A look ahead
- Opportunity for Group Assignment Q's



- Busy with your **individual assessment**
- What you should have achieved
 - **Confluence**, setup your pages/space
 - Have met at least twice as a team?
 - Some communication/meeting structure set up
 - Have allocated roles to your team members
- Plans and actions to complete your group assignment deliverables



What was - for you – the take-away message from the Palantir Presentation?

- Leadership
- Working together as a team
- Not measuring individual performance



Challenges to today's PM

- PM- one of the most dynamic management fields
 - Applying: knowledge, skills, tools and techniques to meet project requirements
- 47 logically grouped PM processes:
 - Initiating, planning, executing, monitoring, controlling and closing
- Apart from the processes – the teamwork:
 - Communication, coordination, + intellectually intensive work + learning + conflicts, issues, team building.....



PM today... (1)

- The world of has changed
 - User(s) in centre of the design process
 - Focus on collaboration & networking
 - Smaller teams with short cycles of success
- Emphasize - Agile not for all projects
- Principal nature of SW PM has not changed dramatically



PM today... (2)

- 21st century sw-intensive system vary:
 - size, content, complexity, degree of interaction with other system
- Prior PM efforts were plan-driven SW development
- Dynamic Project Management –
 - A supportive and responsive way of managing projects that work WITH the needs of teams



- Agile shortens one's development cycles e.g. *highly Agile* stats:
 - 75% meet business goals or intent
 - 65% finish on time and
 - 67% finish within budget
- So - how does one adapt from a traditional PM style to Agile PM style?
- **So let's ask the expert ...**



Question 1:

I'm still an old-style PM
What new tools and techniques do I
need to manage Agile
projects?



Question 2:

I used to Plan for the entire project upfront when working on Waterfall projects. How do I plan now?



Question 3:

A a PM, I used to manage large projects. For Agile will I still manage the whole project or how will I now manage?



Question 4:

What are typical Risks that I now have to look out for as an Agile PM?



Question 5:

I really love my old Gantt Chart
Will I still be able to use this chart
when I'm an Agile PM?



Question 6:

The teams.... I used to put the teams together but do I have to do so for self-organizing teams?



Question 6:

If I have a dispute in a team, what is the best technique for resolving disputes in teams?



Question 7:

Tips for me...
What shall I *forget* in terms of my
'older PM' skills to manage Agile
projects?



In summary

- Agile is:
 - A different philosophy
 - Has its own challenges
 - Needs continuous user involvement
 - Is built on agility and creativity of teamwork
 - . . . **is worth giving a GO!**



- Teams need **good tools** to handle multiple projects
- Modern PM software – real-time
- PM Systems → PM Apps/tools
 - **Open source**
 - **Integrated** with work practices
 - **Real-time workspaces** for team members and outsiders to see: progress and nitty-gritty details
 - No need to **performance manage** teams!



PM tools - example...(1)

- Details of *Projects*
- Milestones, tasks and subtasks
- Start of tasks/sprints, dates, deliverables
- Assignment of tasks to persons, deadline
- Transparency – others see who does what, when, multiple tasks etc.
- Visibility – see who is falling behind – e.g. who has task in the Doing lane for longer than expected
- Easily spot slips and reorganise



PM tools - example...(2)

- Projects 'assets' eg. detailed project descriptions of its parts to visual mock-ups
 - Project members need access to these 'assets'
- PM tool a shared '*The Central Place*' for all project team members
- Adequate 'storage' space is necessary
- Increase in availability of free open access tools (some limitations)



- Little different to PM Apps/tools
- Collaborative tools facilitate team member interaction (VideoConf tools or synchronous editing of artefacts)
 - Slack, Hipchat, Google Docs, chat tools
- Team log into one workspace, can access different elements driving individuality, creativity & teamwork



- PM apps include Task Management features
- E.g. **Asana** (workflow management tools)
- Others include Kanban boards (visual)
e.g **Trello**
- To-do list software:
e.g **Todoist and Wunderlist**
- **Features of tools from a cognitive viewpoint are important**



What do you think currently is:
*Australia's largest export
product?*



- See: <https://www.atlassian.com/>
- Founded in 2002 by 2 Aussies:
 - Mike Cannon-Brookes & Scott Farquhar
 - Students at Univ of NSW, Sydney
 - Startup with \$10,000 Cc debt
 - Name from *Titan Atlas* (Greek mythology)
- Flagship **JIRA** released in 2002, Confluence in 2004

Mike Cannon-Brookes

<http://www.theaustralian.com.au/business/mike-cannonbrookes-of-atlassian-import-talent-for-tech-success/news-story/d242338aa62a8e54f6a238f49a3ff52c>





- Jira
- **Confluence**
- HipChat
- Bitbucket
- Bamboo
- Fisheye
- Crucible
- Clover

+ Trello (added
in Jan 2017)
- Purchased for
\$425 million!

- March 2011
 - Raised \$1M for Charity
- Room to Read*
- from its \$10 ‘Starter’ licenses sales

More Atlassian news

Room to Read



Type	Non-profit organization
Industry	Education
Founded	2000
Headquarters	San Francisco, California, United States
Key people	<ul style="list-style-type: none"> • John Wood (Founder and Executive Chairman) • Erin Ganju (Co-Founder and Chief Executive Officer) • Dinesh Shrestha (Co-Founder and Director of Field Operations)
Website	www.roomtoread.org



- Mid semester break... Yeah!
- **Coming: Monitoring disciplines**
- **Week 8:**
 - Metrics, cost and estimation
- **Week 9:**
 - COCOMO and Agile effort estimation
- **Week 10:**
 - Risk management
- **Week 11:**
 - Quality and quality assurance
- **Week 12- reflection and the exam**



Questions about your
GROUP Assessment?



Have a Great Break!